AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 1, line 18, as follows:

The exemplary embodiment of the present invention seeks to provide a Wireless Local

Loop (WLL) system and Quality of Service to an information transaction between two peers

within a Wireless IP Local Loop (WipLL) system, whose scheme of operation comprises an

Internet protocol (IP) packet switching scheme rather than a circuit switching scheme. This

Wireless (Internet Protocol) Local Loop (WipLL) system seeks to provide an "all-in-one"

broadband access solution for the operator, supporting a variety of data and voice applications on

a single integrated platform.

Please amend the paragraph beginning at page 1, line 25, as follows:

The exemplary embodiment of the present invention provides a shared media that is used

by all customers in the most optimal way due to its packetized air protocol. This technology

enables one of the system's unique features: The ability to recognize the content of a

transmission - e.g. its application - and assign Bandwidth (BW) and Quality-of-Service (QoS)

accordingly.

Please amend the paragraph beginning at page 2, line 6, as follows:

The exemplary embodiment of the present invention, operative as an integrated

broadband terrestrial wireless system, is a complete system solution for carriers or providers of

multiple fixed access services to the SME (small to medium enterprises), SOHO (small office

home office) and residential marketplace including Voice, Data and Video.

Please amend the paragraph beginning at page 2, line 10, as follows:

The exemplary embodiment of the present invention has significant cost and service

advantages over existing wired solutions (HFC, ADSL, FTTC) due primarily to the economic

1007328

advantage of wireless deployment where customer penetration rates are not optimal and cannot

be fully anticipated. The system allows new carriers, as well as incumbents, to deploy, quickly

and relatively inexpensively, a full service broadband access network.

Please amend the paragraph beginning at page 2, line 18, as follows:

The unique features of the exemplary embodiment of the present invention include the

integration of multiple services, including data voice and video, on a single platform, QoS

supported by advanced air protocol, bandwidth assignment according to true data throughput,

wireless access with efficient spectrum use, toll quality telephony and voice band data, large

coverage area - up to 25 km radius, high Base Station capacity due to capability for co-located

multiple radio units, comprehensive and user-friendly Network Management System and

scalability.

Please amend the paragraph beginning at page 3, line 19, as follows:

The exemplary embodiment of the present invention preferably utilizes three

simultaneous approaches to provide Quality of Service to an information transaction between

two peers within a WipLL system: Weighted Fair Queuing (WFQ, based on the time-to-live of

the different packets in the transmission queue of a node); rate-control; and QoS-scheduling.

The present invention particularly utilizes WFQ and QoS-scheduling and the adaptive

combination between them.

Please amend the paragraph beginning at page 11, line 8, as follows:

Each AIU radio unit in the ~~BSyU~~BSU can maintain a 4 Mbps link with the subscribers in

its sector. In this link the radio can maintain, for example, 50 simultaneous (64 kbps) voice

links. Table 1 shows the number of simultaneous users connected to one BSU in a typical 6-

sector cell with one AIU (radio) per sector, assuming 100 mE/subscriber and 1% GOS.

1007328